## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **LISTING OF THE CLAIMS:**

- 1. 34. (Cancelled)
- 35. (Currently Amended) A method for the treatment of an aqueous system containing or in contact with a metal sulfide scale while concomitantly inhibiting the corrosion of surfaces in contact with said aqueous system, said method comprising:

the step of adding to said aqueous system a scale and corrosion inhibiting amount of a formulation as defined in Claim 24 an anti-corrosion and anti-metal sulfide scale formulation comprising a THP<sup>+</sup> salt and a primary, secondary or tertiary alcohol having an acetylenic bond in the carbon backbone.

- 36. (Previously Presented) The method according to Claim 35 wherein the aqueous system is used in enhanced oil recovery.
- 37. (Previously Presented) The method as claimed in Claim 35 wherein the aqueous system is used in industrial water systems or paper manufacturing systems.
- 38. (Previously Presented) The method as claimed in Claim 35 wherein the THP<sup>+</sup> salt is added to the aqueous system in an effective amount of up to 30% by weight.
  - 39. 42. (Cancelled)
- 43. (New) The method according to Claim 35, wherein the acetylenic bond is adjacent to the hydroxyl group, said alcohol having the general formula (I):

$$R^1 C \equiv C C R^2 R^3 OH$$
 (1)

wherein:

 $R^1$ ,  $R^2$  and  $R^3$  being the same or different, each independently represent hydrogen,  $C_1$  to  $C_8$  alkyl or functionally-substituted alkyl.

- 44. (New) The method according to Claim 43, wherein  $R^1$ ,  $R^2$  and  $R^3$  each independently represent hydrogen or  $C_1$  to  $C_8$  alkyl.
- 45. (New) The method according to Claim 44, wherein the alcohol is propargyl alcohol.
- 46. (New) The method according to Claim 35 wherein the metal sulfide scale is iron sulfide, lead sulfide or zinc sulfide.
- 47. (New) The method according to Claim 35, wherein the THP<sup>+</sup> salt comprises an anion selected from the group consisting of sulphate, chloride, phosphate, bromide, fluoride, carbonate, citrate, lactate, tartrate, borate, silicate, formate and acetate.
- 48. (New) The method according to Claim 35, wherein the formulation further comprises a surfactant.
- 49. (New) The method according to Claim 48, wherein the surfactant is a cationic surfactant.
- 50. (New) The formulation as claimed in Claim 49, wherein the cationic surfactant is selected from the group consisting of quaternary ammonium compounds, N-alkylated heterocyclic compounds, quaternised amido-amines, and amino methane phosphonates.
- 51. (New) The formulation as claimed in Claim 48 wherein the surfactant is selected from the group consisting of anionic, amphoteric and non-ionic surfactants.
- 52. (New) The method according to Claim 35 is for treating corrosion of mild steel, copper or aluminum.
- 53. (New) The method according to Claim 35, wherein a ratio of the THP<sup>+</sup> salt to the acetylenic alcohol is between 1:1 and 750:1.

- 54. (New) The method according to Claim 53, wherein the ratio is between 15:1 and 300:1.
  - 55. (New) The method according to Claim 54, wherein the ratio is about 40:1.
- 56. (New) A method for the treatment of an aqueous system containing or in contact with a metal sulfide scale while concomitantly inhibiting the corrosion of surfaces in contact with said aqueous system, said method comprising:

adding to said aqueous system a scale and corrosion inhibiting amount of an anti-corrosion and anti-metal sulfide scale formulation consisting essentially of the reaction product of a THP<sup>+</sup> salt and a primary, secondary or tertiary alcohol having an acetylenic bond in the carbon backbone with a ratio of said THP<sup>+</sup> salt and said acetylenic alcohol of between 1:1 and 750:1.

57. (New) A method for the treatment of an aqueous system containing or in contact with a metal sulfide scale while concomitantly inhibiting the corrosion of surfaces in contact with said aqueous system, said method comprising:

adding to said aqueous system a scale and corrosion inhibiting amount of an anti-corrosion and anti-metal sulfide scale formulation consisting essentially of the reaction product of a THP<sup>+</sup> salt and propargyl alcohol, wherein a ratio of said THP<sup>+</sup> salt and said propargyl alcohol is between 1:1 and 750:1.